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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,872	04/09/2004	Heng-Chia Liao	3137-41	9278
7590 10/11/2005 TROXELL LAW OFFICE PLLC Suite 1404 5205 Leesburg Pike Falls Church, VA 22041			EXAMINER AMIRI, NAHID	
			ART UNIT 3679	PAPER NUMBER

DATE MAILED: 10/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

*ku*

## Office Action Summary

Application No.

10/820,872

Applicant(s)

LIAO, HENG-CHIA

Examiner

Nahid Amiri

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3679

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 09 April 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Drawings*

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character “4” has been used to designate both antenna and casing.

The drawings are objected to under 37 CFR 1.83(a) because they fail to show reference “33”, and **drawing of the collar when fits into the opening of the casing** as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### *Claim Objections*

Claims 1 and 3 are objected to because of the following informalities: line 4, before “least one”, “as” should change to --at--. Claim 3, line 1, “the stop circumferential” should change to --the portion--. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 4, it should be noted that claim 1 sets forth only the retention structure subcombination which claim 4 positively recites elements of the combination e.g., the antenna. Accordingly, it is unclear as to whether the subcombination of "a retention structure" or combination of retention structure with sleeve and antenna is being claimed.

Claim 3 recites the limitation "the stop circumferential" in line 1. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 4,208,944 Moryl.

In regard to claims 1 and 2: Moryl discloses a clip (Figs. 1 and 2) including an outer collar (1) having an end forming a circumferential retention flange (5), having a portion (6) extended axially, at least one retention projection (14) being formed on an outside surface of the collar (1) and extending from the retention flange (5), and at least having one resilient barb (7).

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 4,009,731 Denz.

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In regard to claim 1: Denz discloses a fitting piece (10) of (Fig. with no reference number) including an outer collar having an end forming a circumferential retention flange (12), having a portion (11) extended axially, which extends along approximately one half of a circumferential length of the circumferential retention flange (12), and at least one retention projection (9) being formed on an outside surface of the collar and extending from the retention flange (12).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-7 rejected under 35 U.S.C. 103(a) as being unpatentable over Moryl as applied to claims 1 and 2 above, and further in view of US Patent No. 5,345,643 Tomm, and Applicant's prior art (Fig. 5).

In regard to claims 4-7: Moryl discloses the claimed invention except the collar receives an inner sleeve having a first end to which the antenna is attached. Tomm teaches (Fig. 3) the collar (62) receives the inner sleeve (60) having first end attached to shaft (14) and free second end which two axially extending slots are defined to divide the sleeve (60) into two spaced portion (56). Applicant's prior art (Fig. 1) teaches an antenna (5) including an inner sleeve (15) having a first end to which the antenna (5) is attached and a free second end in which two axially extending slots are defined to divide the sleeve (15) into two spaced, a stop block formed on the sleeve (15) and at least a portion of the sleeve (15) forms a circumferentially extending rib, wherein the antenna (5) is attached to the sleeve (15) by a pivot and at a fixed angle. It would have been obvious to one of ordinary skill in the art at the time of invention was made to provide the inner

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sleeve of applicant's admitted prior art to receive the collar of Moryl in the manner taught by Tomm order to fastening a object to a support member.

### *Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 6,698,966 B2 Hilton et al.

US Patent No. 5,856,806 Koleda

US Patent No. 6,116,837 Suhle

US Patent No. 6,074,150 Shinozaki et al.

US Patent No. 5,727,761 Ho

US Patent No. 6,442,036 B2 Komatsu

US Patent No. 5,031,266 Tillman et al.

US Patent No. 5,945,952 Davidson

US Patent No. 6,039,105 Patmore et al.

The above cited prior arts disclose a fastener with outer collar having projection in outer surface of the collar and resilient barb for attaching one member to another.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nahid Amiri whose telephone number is (571) 272-8113. The examiner can normally be reached on 8:30-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571) 272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

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more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*na*

Nahid Amiri  
Examiner  
Art Unit 3679  
August 18, 2005

A handwritten signature in black ink that reads "Daniel P Stodola". The signature is written in a cursive style with a large, looped initial "D".

DANIEL P. STODOLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600